

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/064301 A1

(51) International Patent Classification⁷:
I/12, 3/14, 25/00

G01L 3/10,

(74) Agent: HUENGES, Martin; Maiwald Patentanwalts
GmbH, Elisenhof, Elisenstrasse 3, 80335 Munich (DE).

(21) International Application Number:
PCT/EP2004/014796

(22) International Filing Date:
29 December 2004 (29.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(30) Priority Data:
03030030.5 30 December 2003 (30.12.2003) EP
60/533,276 30 December 2003 (30.12.2003) US
60/598,111 2 August 2004 (02.08.2004) US
60/612,562 23 September 2004 (23.09.2004) US
60/617,890 12 October 2004 (12.10.2004) US
60/626,359 9 November 2004 (09.11.2004) US
60/629,589 19 November 2004 (19.11.2004) US

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GI,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US):
NCTENGINEERING GMBH [DE/DE]; Otto-Hahn-
Strasse 24, 85521 Ottobrunn (DE).

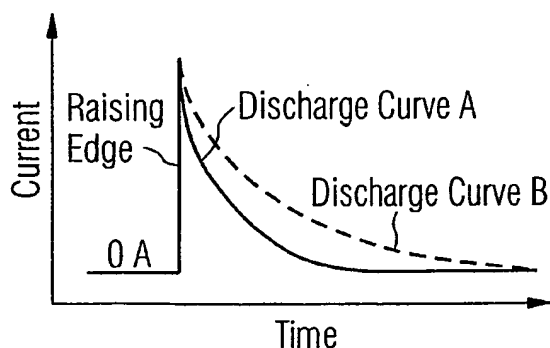
Published:
— with international search report

(72) Inventor; and

(75) Inventor/Applicant (for US only): MAY, Lutz [DE/DE];
Wolfratshauser Str. 23a, 82538 Geretsried-Gelting (DE).

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: TORQUE SENSOR



(57) Abstract: A torque sensor having a
sensor element, wherein the sensor element
is manufactured in accordance with the
manufacturing steps of applying a first current
pulse to the sensor element, wherein the first
current pulse is applied such that there is a
first current flow in a first direction along
a longitudinal axis of the sensor element,
wherein the first current pulse is such that
the application of the current pulse generates
a magnetically encoded region in the sensor
element.

WO 2005/064301 A1